

PAT-NO: JP363218793A
DOCUMENT-IDENTIFIER: JP 63218793 A
TITLE: JET BED COAL GASIFICATION
PUBN-DATE: September 12, 1988

INVENTOR-INFORMATION:

NAME
SATO, TAKERO

ASSIGNEE-INFORMATION:

NAME NIPPON STEEL CORP	COUNTRY N/A
---------------------------	----------------

APPL-NO: JP62051676

APPL-DATE: March 6, 1987

INT-CL (IPC): C10J003/46

US-CL-CURRENT: 48/210

ABSTRACT:

PURPOSE: To obtain low-cost coal gas in a simple apparatus, by blowing preheated powdered coal with an oxygen-containing gas from a burner into a high-temperature furnace, instantaneously burning the blend gas and quick cooling the resultant combustion product.

CONSTITUTION: Powdered coal 1 is preheated at 100∼350°C in a preheater 8 and then, together with an oxygen-containing gas, such as air, from a feed port 9, blown from a burner 11 into a high-temperature furnace so as to provide ≥0.1sec (preferably within 0.05sec) residence time of the combustion product in the high-temperature furnace. The resultant combustion product is

subsequently quick-cooled in a water-cooled sampler 16 to carry out gasification of coal.

COPYRIGHT: (C) 1988, JPO&Japio